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APPLICATION NO.	FILING	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/976,892	10/1	5/2001	William J. Berry	00411-03	1747
7590 01/29/2004			EXAMINER		
Walter L. Bea			CINTINS, IVARS C		
326 South Eugene Street Greensboro, NC 27401				ART UNIT	PAPER NUMBER
Crownsons, Tree Trees				1724	
				DATE MAILED: 01/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/976,892	BERRY, WILLIAM J.					
Office Action Summary	Examiner	Art Unit					
	Ivars C. Cintins	1724					
The MAILING DATE of this communication	n appears on the cover sheet w	vith the correspondence address					
Period for Reply A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by see any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the ceriod will apply and will expire SIX (6) MC statute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely DNTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133)					
Status							
1) Responsive to communication(s) filed on							
7 20,00	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)	hdrawn from consideration.						
Application Papers							
9) The specification is objected to by the Exa	aminer.	to the Everylines					
10) The drawing(s) filed on is/are: a)	_ accepted or b) objected t	once See 37 CER 1.85(a)					
Applicant may not request that any objection t Replacement drawing sheet(s) including the c	to the drawing(s) be neid in abey	ng(s) is objected to See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by t	he Examiner. Note the attach	ned Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120	TO EXAMINION TO THE STATE OF						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for 13) Acknowledgment is made of a claim for do since a specific reference was included in to 37 CFR 1.78. a) The translation of the foreign language 14) Acknowledgment is made of a claim for do reference was included in the first sentence.	uments have been received. uments have been received in e priority documents have be Bureau (PCT Rule 17.2(a)). a list of the certified copies not mestic priority under 35 U.S. the first sentence of the speci- ge provisional application has mestic priority under 35 U.S.	n Application No en received in this National Stage not received. C. § 119(e) (to a provisional application) ification or in an Application Data Sheet. s been received. C. §§ 120 and/or 121 since a specific					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9 3) Information Disclosure Statement(s) (PTO-1449) Paper I	(148) 5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)					

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Art Unit: 1724

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 3-8, 10-16 and 18 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. It appears essential that the recited control valve include both a duct having a series of axially spaced, parallel grooves therealong with o-rings therebetween (see page 3, last line through page 4, line 2 of the specification); and a spool having a plurality of longitudinal channels (see page 4, lines 2-3 of the specification) residing in this duct (see page 3, last line of the specification). The channels appear to be required in order to allow water to flow beneath the o-rings (see page 7, lines 2-3 of the specification); and the grooves encircling the duct appear to be required ion order to allow water to freely flow between the o-rings (see page 7, lines 9-10). Without the presence of both of these critical and essential elements, it is not clear that the control valve is capable of functioning in the intended manner. Claims 1, 3-8, 10, 14-16 and 18 fail to recite the apparently critical and essential longitudinal channels in the spool; and claims 1, 3-8, 10-16 and 18 fail to recite the apparently critical and essential series of axially spaced parallel grooves encircling the duct between the o-rings. Accordingly, these are not enabled by the disclosure. In re Mayhew, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-8, 10-16 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which

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Applicant regards as the invention. Claims 1, 3-8, 10, 14-16 and 18 fail to recite the apparently critical and essential longitudinal channels in the spool; and claims 1, 3-8, 10-16 and 18 fail to recite the apparently critical and essential series of axially spaced parallel grooves encircling the duct between the o-rings. Accordingly, these claims fail to distinctly claim the subject matter which Applicant regards as the invention, as explained above. Also, the recitation that rotating the spool allows "water to flow through the grooves beneath the o-rings" (claim 15, step d) is deemed to be misdescriptive, since it appears that the channels, not the grooves, allow water to flow beneath the o-rings (see page 7, lines 2-3 of the specification). The grooves apparently allow water to flow between these o-rings (see page 7, lines 9-10 of the specification).

Claims 1, 3-8, 10-16 and 18 would be allowed if amended to overcome the above rejections under 35 U.S.C. § 112.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is (571) 272-1155. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Blaine Copenheaver, can be reached at (571) 272-1156.

The centralized facsimile number for the USPTO is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-0987.

Ivans Curtus
Ivars C. Cintins
Primary Examiner
Art Unit 1724